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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	D. CONFIRMATION NO	
10/625,031	07/22/2003	Bruno C. Nadd	IR-1852 3572 9526		
2352	7590 09/09/2004		EXAMINER		
-	K FABER GERB & S	WELLS, KENNETH B			
1180 AVENUE OF THE AMERICAS NEW YORK, NY 100368403			ART UNIT	PAPER NUMBER	
,			2816		
			DATE MAILED: 09/09/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applica	tion No.	Applicant(s)					
Office Action Summary		031	NADD ET AL.					
		er	Art Unit					
	Kenneth	B. Wells	2816					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) Responsive to communication(s)	filed on 22 July 2003.	•						
2a) This action is FINAL .	2b)⊠ This action is	non-final.						
3) Since this application is in condition	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the pra	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
 4) ☐ Claim(s) 1-38 is/are pending in the application. 4a) Of the above claim(s) 12-14,24-29 and 38 is/are withdrawn from consideration. 5) ☐ Claim(s) 15-22 is/are allowed. 6) ☐ Claim(s) 1-3,23 and 30-33 is/are rejected. 7) ☐ Claim(s) 4-11 and 34-37 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 								
Application Papers								
9)⊠ The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on <u>22 July 2003</u> is/are: a) accepted or b)⊠ objected to by the Examiner.								
Applicant may not request that any o	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
1) Notice of References Cited (PTO-892)		4) Interview Summary	,					
 Notice of Draftsperson's Patent Drawing Review Information Disclosure Statement(s) (PTO-1449 Paper No(s)/Mail Date 	•	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		D-152)				

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1. Applicant's election of species A, corresponding to Fig. 1, is acknowledged. Claims 12-14, 24-29 and 38 are accordingly withdrawn from consideration by the examiner.

2. The disclosure is objected to because of the following informalities: on page 1, line 22, "to" (first occurrence) should be deleted, and "damage" should be changed to --damage--. On page 4, line 6, "source" should be changed to --drain--, and on line 8, "drain" (first occurrence) should be changed to -- source--. On line 9, "source" should be changed to --drain--. On line 18 of page 4, "RDG" should be changed to --Rpg-- and "MOSFET" should be changed to --device-- (note also page 5, line 1 and page 6, line 15). On page 5, lines 12-17 are a run-on sentence and should be reworded. On line 16 of page 6, "RT" should be changed to --Rp--.

Appropriate correction is required.

3. The drawings are objected to because in Fig. 1, "Rdg" is inconsistent with the designation used throughout the specification, i.e., this should be changed to $--R_{DG}--$. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should

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include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

4. Claim 1 is objected to because of the following informalities: on line 3, "the current" lacks antecedent basis, as does ""the drain-source voltage" on line 5. Appropriate correction is required.

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5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 23 and 30-33 are rejected under 35 U.S.C. 102(b) as being anticipated by Osborn et al.

As to claims 1, 23 and 30, note Fig. 4, where the recited "power MOS device" reads on the combination of FETs 202, 210 and resistor 222; the recited "current sense circuit" reads on the combination of FET 210 and resistor 222; the recited "drain-source voltage" reads on the voltage across FET 210 or the voltage across FET 202; the recited "circuit for producing" on line 5 of claim 1 reads on the Fig. 4 circuitry that generates the potential at node 236, or the circuitry that generates the potential at node 234; the recited "comparator" reads on circuit 230; and the recited "overtemperature protection signal" reads on the signal output from circuit 230 on line 232.

As to claims 2, 3, 31 and 32 note that either the inverting input or non-inverting input of comparator 230 will read on the recited "voltage related to the drain-source voltage" (and the

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same is true for the recited "voltage related to the current in the power MOS device").

As to claim 33, the recited "first voltage" reads on the voltage at node 224 and the recited "main current cell" reads on FET 210.

6. Claims 15-22 are allowed.

Claims 4-11 and 34-37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth B. Wells whose telephone number is (571)272-1757. The examiner can normally be reached on Monday through Friday from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan, can be reached at (571)272-1740. The fax phone number for the

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organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kenneth B. Wells Primary Examiner Art Unit 2816

September 3, 2004